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TITLE: DIGITAL PROTECTION CONTROLLER

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ABSTRACT:

    PROBLEM TO BE SOLVED: To automatically correct a digital
signal used for
protection arithmetic processing according to a detected
value by automatically
detecting an offset generated in an analog system.

    SOLUTION: An analog signal from a power system is taken
into an analog
filter 1b, and the analog signal is filtered by a
multiplexer, while being
sampled by an A/D converter 1c and being converted into a
digital signal.
Digital-filter arithmetic processing is executed to the

digital signal in a
digital filter 1e, an offset is extracted, and the offset is stored in a memory
1g as an offset correction value. The digital signal by an output from the A/D
converter 1c is subtracted and corrected successively at the offset correction
value from the memory 1g in a subtracter 1h, and protection arithmetic
processing for controlling a relay is conducted in accordance with the
corrected digital signal.